	Total Support for	Total Support for		Total Support for		Total Support for	% Difference
State	100% CBGs *	Bottom 90%	(100%-90%)/100%	Bottom 70%	(100%-70%)/100%	Bottom 50%	(100%-50%)/100%
Minnesota				0111710 100		407.005.040	
\$40 benchmark	\$125,519,746	\$124,006,166	1.2%	\$114,743,408	8.6%	\$87,825,843	30.0%
\$30 benchmark	\$192,788,716	\$187,646,156	2.7%	\$166,474,499	13.6%	\$124,241,450	35.6%
\$20 benchmark	\$329,231,659	\$308,291,331	6.4%	\$253,399,823	23.0%	\$182,516,926	44.6%
HH income	\$30,909	\$48,750		\$35,282		\$28,036	Hatting the transfer of the tr
Mississippi	<u> </u>			prosp 14" - passeciate 1, or 11, and prospectively constructively prospectively prospective pros			
\$40 benchmark	\$92,713,783	\$89,987,899	2.9%	\$75,324,097	18.8%	\$51,932,598	44.0%
\$30 benchmark	\$157,912,848	\$149,651,058	5.2%	\$121,885,589	22.8%	\$82,448,821	47.8%
\$20 benchmark	\$253,971,695	\$234,493,387	7.7%	\$186,111,878	26.7%		50.3%
HH Income	\$20,136	\$33,125		\$23,194		\$18,920	The second section of the second section of the second section of the second
Missouri							
\$40 benchmark	\$175,081,457	\$172,514,535	1.5%	\$151,478,675	13.5%		38.0%
\$30 benchmark	\$256,866,861	\$249,315,074	2.9%	\$212,068,172	17.4%		41.7%
\$20 benchmark	\$423,818,132	\$391,240,470	7.7%	\$312,841,063	26.2%		49.0%
HH Income	\$26,362	\$41,027		\$29,228		\$22,679	Assets comment to military by contrasticularies of more
Montana			i de la companya de l	Comment Comments Control of Special Million Control of Special Control			Approximate to a comment of the comm
\$40 benchmark	\$55,338,185	\$50,958,921	7.9%	\$39,833,923	28.0%	\$27,335,944	EO EO
\$30 benchmark	\$72,177,350	\$66,169,948	7.9% 8.3%	\$59,833,923 \$50,898,687	29.5%		50.6% 52.6%
\$20 benchmark	\$99,429,580	\$90,163,247	9,3%		31.3%		The second secon
HH Income	\$22,988	\$35,000	J.J.N	\$26,750	31.3.6	\$22,135	
1111111001110		430,000		i	Teamontol. (W. Degas, con per	1 722,100	The state of the s
Nebraska				odretom, m. co. a. a. a. money, co. a.			Management of the second of th
\$40 benchmark	\$71,445,601	\$70,249,030	1,7%	\$57,910,010	18.9%	\$41,198,819	42.3%
\$30 benchmark	\$99,355,252	\$96,409,092	3.0%	\$78,488,365			
\$20 benchmark	\$149,255,436	\$139,449,430	6.6%	\$110,340,276	26.1%	\$77,076,289	48.4%
HH Income	\$26,016	\$39,769		\$28,438		\$23,750	
							the and the control of the control o
Nevada							
\$40 benchmark	\$34,196,875		5.8%				
\$30 benchmark	\$47,574,874		7.2%	No. of the same of			Management of the Control of the Con
\$20 benchmark	\$83,727,699	\$77,672,376	7.2%				
HH Income	\$31,011	\$50,498		\$38,659	the street of th	\$31,023	Property of the second
Man diameter							management of the second secon
New Hampshire \$40 benchmark	\$38,727,493	\$36,156,715	6.6%	\$28,218,719	27.1%	\$16,636,050	57.0%
\$30 benchmark	\$65,434,007		9.2%				
\$20 benchmark	\$106,138,535		10.8%				and the same of th
HH income	\$36,329			\$40,417	The state of the s	\$34,375	The second secon
		:					Annual of the state of the stat
New Jersey				n, distributation and a second of the second	to the control of the		management of the state of
\$40 benchmark	\$17,362,688	\$16,223,341	6.6%	\$10,976,443	36.8%	\$5,777,982	66.7%
\$30 benchmark	\$60,829,712	\$54,673,352	10.1%	\$36,642,883	39.8%		
\$20 benchmark	\$233,915,933	\$206,902,505	11.5%	\$143,244,506	38.89	\$86,513,583	63.0%
HH Income	\$40,927	\$68,043		\$50,305		\$40,363	
		!	The state of the s	i in the Attention of the Community of the Attention of t			Annual Company of the
New Mexico							
\$40 benchmark			The second secon				
\$30 benchmark					The second secon		-
\$20 benchmark	\$135,968,308 \$24,087		The second secon	and the second s			The state of the s
HH Income	\$24,087	\$39,896		\$27,321		\$21,463	
New York				and remarkable may be accommodated a translation translation	1		allogg, many additions to the control of the contro
\$40 benchmark	\$166,623,794	\$163,102,380	2.19	\$151,936,672	8.89	6 \$115,217,851	30.9%
\$30 benchmark							CONTRACTOR OF THE CONTRACTOR O
\$20 benchmark							Andrews and the contrast of th
HH Income	\$32,965		The second secon	\$42,000		\$32,292	The second secon
			The second secon	no hollistan s		77-11-7	White the second desired the same and the same of the same
North Carolina	l ,	And Annual Control of the Control of	I	tion of antiferror, the analysis assessment for all Providence Congression below.			The manufacture of the second section of the second section of the second secon
\$40 benchmark		\$139,812,182	1.69	6 \$117,842,04	2 17.09	\$84,514,70	40.5%
\$30 benchmark	\$282,980,936						2 47.4%
\$20 benchmark	\$529,685,378			\$372,759,55	5 29.69	\$251,830,09	3 52.5 %
HH Income	\$26,64	7 \$40,25	7	\$29,85	0	\$25,06	2

		Total Support for	% Difference		% Difference	Total Support for	
State	100% CBGs *	Bottom 90%	(100%-90%)/100%	Bottom 70%	(100%-70%)/100%	Bottom 50%	(100%-50%)100%
North Dakota	257.104.100	450 5 10 700	7 70/	* 40 702 208	20.70	620 267 044	40 00
\$40 benchmark	\$57,124,436	\$52,749,783	7.7%		28.7%	\$29,267,941	48.8%
\$30 benchmark	\$70,790,328	\$64,832,043	8.4%		28.8%	\$36,173,375	
\$20 benchmark	\$92,077,432 \$23,213	\$83,042,027 \$33,534	9.8%	\$64,617,956 \$25,625	29.8%	\$45,852,234 \$21,591	50.2%
HH Income	\$23,213	\$33,334		#23,023		321,331	
Ohio				Committee of the commit			
\$40 benchmark	\$128,393,296	\$124,464,191	3.1%	\$90,993,485	29.1%	\$47,255,869	63.2%
\$30 benchmark	\$272,185,011	\$254,910,124	6.3%		32.8%	\$97,643,260	
\$20 benchmark	\$614,504,598	\$551,939,009	10.2%		35.9%	\$227,060,678	
HH Income	\$28,706	\$43,854		\$33,113		\$27,188	
					,		
Okiahoma							The Charles of the Control of the Co
\$40 benchmark	\$100,984,247	\$97,175,241	3.8%		23.4%		
\$30 benchmark	\$158,856,469	\$150,239,913	5.4%		26.1%	\$78,970,826	The Court of the C
\$20 benchmark	\$267,259,957	\$244,439,341	8.5%		30.9%		
HH Income	\$23,577	\$37,917		\$26,818		\$21,333	The stage of the state of the s
Oregon	 			A CONTROL OF THE CONT	**************************************		
Oregon \$40 benchmark	\$77,502,634	\$74,468,504	3.9%	\$60,656,911	21.7%	\$42,022,874	45.8%
\$30 benchmark	\$119,637,078	\$112,071,803	6.3%		27.0%		
\$20 benchmark	\$216,925,875	\$196,290,456	9.5%		32.4%		
HH Income	\$27,250	\$40,369		\$30,683		\$25,500	
	V27,1200	V-0.000			AND THE PERSON NAMED OF TH	1	Henganic according to the control of
Pennsylvania	 			Acceptance of the second secon	:		Para opposite the state of the
\$40 benchmark	\$163,593,183	\$161,735,506	1.1%	\$140,441,627	14.2%	\$99,357,855	39.3%
\$30 benchmark	\$301,994,936	\$291,026,075	3.6%		21.8%		
\$20 benchmark	\$612,775,392	\$557,932,048	8.99	\$421,795,962	31.2%	\$275,782,389	55.0%
HH Income	\$29,069	\$44,556		\$32,857		\$26,908	3
Rhode Island						<u> </u>	
\$40 benchmark	\$6,773,314						and the same of th
\$30 benchmark	\$15,697,779		17.79				
\$20 benchmark	\$43,928,435		14.89		48.49		
HH Income	\$32,181	\$46,937		\$38,047		\$32,344	The state of the s
S. Carolina				and the second resemble to the second resembl			and the committee service can be a first or as a
\$40 benchmark	\$81,374,752	\$79,859,400	1.99	\$69,773,460	14.39	\$49,453,270	39.2%
\$30 benchmark	\$152,970,263						
\$20 benchmark	\$279,168,065						
HH income	\$26,256			\$30,066		\$24,659	
					The state of the s		
S. Dakota		<u> </u>		mi (artista	and the second section of the section of the section of the second section of the secti		Markey and another Assessment Street Programmer
\$40 benchmark	\$52,449,770	\$49,080,400	6.49	6 \$38,474,592	26.69	\$27,093,580	48.3%
\$30 benchmark	\$69,560,205						7 48.9%
\$20 benchmark				and the second s			Management and the second seco
HH Income	\$22,503	\$32,009	- Country	\$24,406		\$21,028	3)
<u></u>	+	- 		The second secon			non-que communicamento sen escreta
Tennessee	-	*****				450 005 005	E 64 000
\$40 benchmark					The state of the s		
\$30 benchmark					And the second state of the second se		The state of the s
HH Income	\$391,293,772 \$24,807		The same of the same of the same of	\$277,007,527 \$28,125		6 \$181,929,52 \$22,70	
I II III III III III	324,007	\$35,00 I		\$20,12		₹24,1U	- to produce the second second second second
Texas				HI STATEMENT	process of the state of the sta		Hamiltonian Americanism
\$40 benchmark	\$272,533,671	\$269,453,788	3 1.19	\$235,680,71	13.59	\$157,627,71	4 42.29
\$30 benchmark							the state of the s
\$20 benchmark							THE PARTY OF THE P
HH Income	\$27,016		The second secon	\$31,82		\$24,33	And the second contract to the second to the
	ì			n might a samme of the terrority	The state of the s		The state of the s
Utah		1	A CASE III	H. District. School of the control o	The state of the s		
\$40 benchmark	\$32,825,936	\$31,423,462	2 4.3	% \$26,966,79	1 17.8	\$21,222,41	
\$30 benchmark		9 \$44,711,790	6.2	The state of the s			THE PARTY OF THE P
\$20 benchmark							
HH Income	\$29,470	944,31	2 !	\$34,41	2	\$28,15	Ю.

	Total Support for	Total Support for	% Difference	Total Support for	% Difference	Total Support for	% Difference
State	100% CBGs *	Bottom 90%	(100%-90%)/100%	Bottom 70%	(100%-70%)/100%	Bottom 50%	(100%-50%)/100%
Vermont				The same of the sa			The state of the s
\$40 benchmark	\$35,858,893	\$32,685,777	8.8%	\$24,752,762	31.0%	\$16,816,312	53.1%
\$30 benchmark	\$51,951,872	\$46,883,995	9.8%	\$34,940,866	32.7%	\$23,580,297	54.6%
\$20 benchmark	\$72,293,239	\$64,524,458	10.7%	\$47,692,436	34.0%	\$32,286,176	55.3%
HH Income	\$29,792	\$40,625		\$32,436		\$28,687	CALIFORNIA CONTRACTOR
Virginia				TOTAL CONTRACTOR AND	Were the second of the second		The state of the s
\$40 benchmark	\$99,618,917	\$98,929,941	0.7%	\$88,177,839	11.5%	\$66,910,433	32.8%
\$30 benchmark	\$188,054,501	\$183,948,384	2.2%	\$157,874,688	16.0%	\$115,073,395	
\$20 benchmark	\$377,184,292	\$352,557,139	6.5%	\$280,475,018	25.6%	\$194,133,913	48.5%
HH Income	\$33,328	\$57,273		\$37,467		\$28,250	CANAL -y one of our motor (see as the con-
Washington			140	MEDICAL DE LA CONTRACTOR DE LA CONTRACTO			Chales with adoption III to the last to the control of the control
\$40 benchmark	\$76,625,619	\$75,376,447	1.6%	\$67,485,025	11.9%		
\$30 benchmark	\$131,124,036	\$125,492,230	4.3%	\$106,923,569	18.5%		
\$20 benchmark	\$279,458,573	\$255,546,319	8.6%	\$201,634,397	27.8%	\$137,178,995	50.9%
HH Income	\$31,183	\$47,574	THE SAME	\$36,719	THE REAL PROPERTY OF THE PARTY	\$30,515	(a) (a) (b) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
W. Virginia				englis for manifestation. He les communications as a series and less and less as a series and less as a series as			1000
\$40 benchmark	\$96,501,878	\$93,716,019	2.9%	\$80,700,189	16.4%		36.9%
\$30 benchmark	\$145,860,346	\$139,234,319	4.5%	\$116,636,074	20.0%		
\$20 benchmark	\$214,204,712	\$200,089,520	6.6%	\$163,064,767	23.9%		
HH Income	\$20,795	\$31,354	A STATE OF THE ASSESSMENT OF T	\$ 23,750	Salta Sa	\$19,907	
Wisconsin	i						
\$40 benchmark	\$107,453,939			\$89,461,090			
\$30 benchmark	\$187,460,245			\$142,686,775			
\$20 benchmark	\$343,209,336						
HH Income	\$29,442	\$43,375		\$33,250		\$28,113	
Wyoming			- Add	and the second of the second o	THE LEWIS CO. LANSING CO. LANSING CO.		
\$40 benchmark	\$27,183,736						
\$30 benchmark	\$35,529,658				38.3%		the state of the s
\$20 benchmark	\$50,296,544						
HH Income	\$27,096	\$41,442	The state of the s	\$30,441	and the second s	\$24,635	<u> </u>
Entire US:							
\$40 benchmark							
\$30 benchmark							
\$20 benchmark	\$14,664,182,818	\$13,352,047,237	8.9%	\$10,195,898,803	30.5%	\$6,763,365,941	53.9%
	d income at the 100						
At the 90%, 70%	6, and 50% levels, th	e household income	is the highest incom	e in that bracket	The state of the s		manufactures of the first of the first of
Sources: BCM2	, 1990 Census of Po	ulation and Housing	Summary Tape File	J 3A			**************************************
1-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				A Principal Control to Section 1997			manifesti (managaman) (managam

APPENDIX B

Description of methodological approach

The BCM2 with the unadjusted default values was used to compute the cost of providing basic local exchange service in each of the nation's more than 200,000 census block groups (CBGs). These cost results were compared with three different monthly revenue benchmarks — \$20, \$30 and \$40 — in order to estimate the universal service funding (USF) requirement on a state-by-state basis (i.e., to generate the "default" results of the BCM2). This is the "baseline" case — i.e., the scenario whereby *all* households in high-cost areas would be eligible for subsidization, regardless of their income level.

Because the BCM2 does not include any of the income data from the Census data base for the CBGs whose proxy costs the Model undertakes to evaluate, this data was obtained from the Census Bureau and integrated with the BCM2 data base. Median household income was selected as an appropriate metric from the income data contained in the Census CBG data base. The purpose of the analysis was to overlay CBG income and CBG cost. Three different possible income guidelines for determining high-cost eligibility were defined and analyzed.

- Only those CBGs with incomes below the 50th percentile (i.e., below the median income level) for each state would be eligible for high-cost support. 17
- 2. Only those CBGs with incomes below the 70th percentile for each state would be eligible for high-cost support (i.e., the highest 30% would be ineligible).
- Only those CBGs with incomes below the 90th percentile for each state would be eligible for high-cost support (i.e. the highest 10% would be ineligible).

¹⁵ Use of the BCM2 Model in no way implies endorsement of this model for determination of high-cost support funding. In fact, there is no reason to expect the pattern or overall magnitude of the results of this study to be substantially different if another cost proxy model is adopted. The BCM2 is designed in such a way as to a permit the modification of certain "user-specified" values. While the BCM2 default values were not revised for this analysis, their use does not in any sense constitute agreement with these values

^{16 1990} Census of Population and Housing Summary Tape File 3A. These data provide the most recent income statistics available from the Census Bureau. Mean and median household incomes have risen in nominal terms from 1990 to 1995, (see Current Population Reports, Series P-60, Income Statistics Branch/HHES Division, U.S. Bureau of the Census) and therefore there is a temporal mismatch between the costs examined (which are based upon estimates made in 1997) and the incomes examined (which were reported in 1990). One would expect, therefore, that the "actual" average incomes are greater than those reported in 1990. This mismatch of years does not influence the results of our analysis because we examine the income stratification rather than the income level, but it may influence any judgments that regulators may make about the appropriate income guidelines for a high-cost fund.

^{17.} Because the analysis relies upon a ranking of the CBGs, the 50th, 70th, and 90th percentiles do not include 50%, 70% and 90% of the households, but rather 50%, 70% and 90% of the CBGs.

Appendix B

While the median household income for the US as a whole is \$30,056, there is considerable variation in income levels from state to state. For example, Connecticut has the highest median household income (\$41,721), while Mississippi has the lowest (\$20,136). Since income levels tend to bear at least some relationship with the cost of living in a particular area (such as a state), the income distribution within each state was used to identify those CBGs falling below the three income thresholds (50th, 70th and 90th percentiles, respectively). For computational purposes, the 50%, 30%, and 10% of the CBGs, respectively, with the highest incomes, were identified to provide a reasonable approximation of comparing CBG incomes to the statewide income that corresponds with the 50th, 70th and 90th percentiles.

It should also be noted that all of the average income figures are biased downward because of the way the US Census Bureau treats incomes over \$150,000. The Census Bureau places all those with incomes above \$150,000 into the same bracket. Because of this grouping, a household with a \$1-million income is given the same statistical weighting as one with a \$150,000 income. Thus, very high incomes cannot be accurately captured in the analysis. Taking this fact into consideration would mean that many states and individual CBGs are even wealthier than they are represented to be by the Census data. This fact does not, however, affect the results because the CBGs in this income bracket would be assigned to the top percentiles, regardless of the "correct" absolute median average. However, it is relevant to an assessment of affordability and to the design of fair income guidelines.

Table B-1 below summarizes state-specific data and results for the country. 19

^{18.} Furthermore, as noted previously, the incomes are those that were reported in 1990.

^{19.} The median income for each state and the income cap for the 50th percentile do not match because the state median income is based upon a ranking of households, while the TJSF support analysis discussed in this paper relies upon a ranking of CBGs.

Appendix B

TABLE B-1 RESULTS OF STATE-SPECIFIC ANALYSIS

CERTIFICATE OF SERVICE

I, Catherine M. DeAngelis, do hereby certify that on this 27th day of April, 1998, copies of the foregoing "Comments of Time Warner Communications Holdings Inc." were hand delivered or sent by First Class Mail, postage prepaid, to the following parties:

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Commissioner Gloria Tristani *
Commissioner
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